



Martin O'Malley, Governor  
Anthony Brown, Lt. Governor

John D. Porcari, Secretary  
Neil J. Pedersen, Administrator

Maryland Department of Transportation

Please reply to:  
Office of Materials Technology  
7450 Traffic Drive  
Hanover, MD 21076

**MEMORANDUM**

**TO:** Ms. Karuna Pujara,  
Chief, Highway Hydraulics Division

**ATTN:** Mr. Scott Pomento

**FROM:** Geoff Hall, Chief  
Pavement and Geotechnical Division

**DATE:** January 23, 2009

**SUBJECT:** Contract No.: AW730A21  
**Annapolis Maintenance Shop Drainage Repair**  
District 5 – Anne Arundel County

We have conducted a pavement and geotechnical investigation for the proposed improvements to the Annapolis Maintenance Shop. A visual inspection of the project site was conducted on July 9, 2008. Our recommendations are based on the visual inspection and soil borings. Copies of Pavement Details and Soil Boring Log Summary Sheets are attached for your use.

**Scope of Work.** The proposed scope of work includes reconstruction of the existing parking area, installation of curb and gutter, storm drain system, and a Storm Filter BMP adjacent to the Annapolis Maintenance Shop.

**Visual Inspection Summary.** The existing pavement at the Annapolis Maintenance Facility within the project limits is in poor structural condition and functional condition with fractured bituminous concrete.

**Recommendations.** Our recommendations for this project consist of a full-depth pavement section for the existing parking lot within project limits.

**Cut and Fill Slopes.** All slopes shall be 2:1 or flatter.

**Full-Depth Reconstruction.** The existing pavement and all unsuitable material shall be removed prior to placing the new full-depth pavement. The following pavement section shall be placed at areas of full-depth construction:

1.5" Hot Mix Asphalt Superpave 9.5 mm for Surface, PG 64-22, Level 2  
(CATEGORY CODE 504086)  
5" Hot Mix Asphalt Superpave 19.0 mm for Base, PG 64-22, Level 2  
(Two- 2.5" Lifts) (CATEGORY CODE 504298)

My telephone number/toll-free number is (443) 572-5067 / 1-866-926-8501  
Maryland Relay Service for Impaired Hearing or Speech: 1.800.735.2258 Statewide Toll Free

Street Address: 707 North Calvert Street • Baltimore, Maryland 21202 • Phone: 410.545.0300 • [www.marylandroads.com](http://www.marylandroads.com)



6" Base Course Using Graded Aggregate  
(One-6" Lift) (CATEGORY CODE 520113)

If we can be of further assistance, please contact Paulo DeSousa at 443-572-5061 or Madan Gaddam at 443-572-5065.

GMH/PMD/mg

Attachments

cc: Mr. James Folden, Mr. Madan Gaddam, Mr. Mike Lynch

<b>State of Maryland</b>	Contract:	AW730A21	
<b>State Highway Administration</b>	Project:	Annapolis Maintenance Shop Drainage Repair	
<b>Pavement &amp; Geotechnical Division</b>	Date:	January 2009	Page 1 of 2

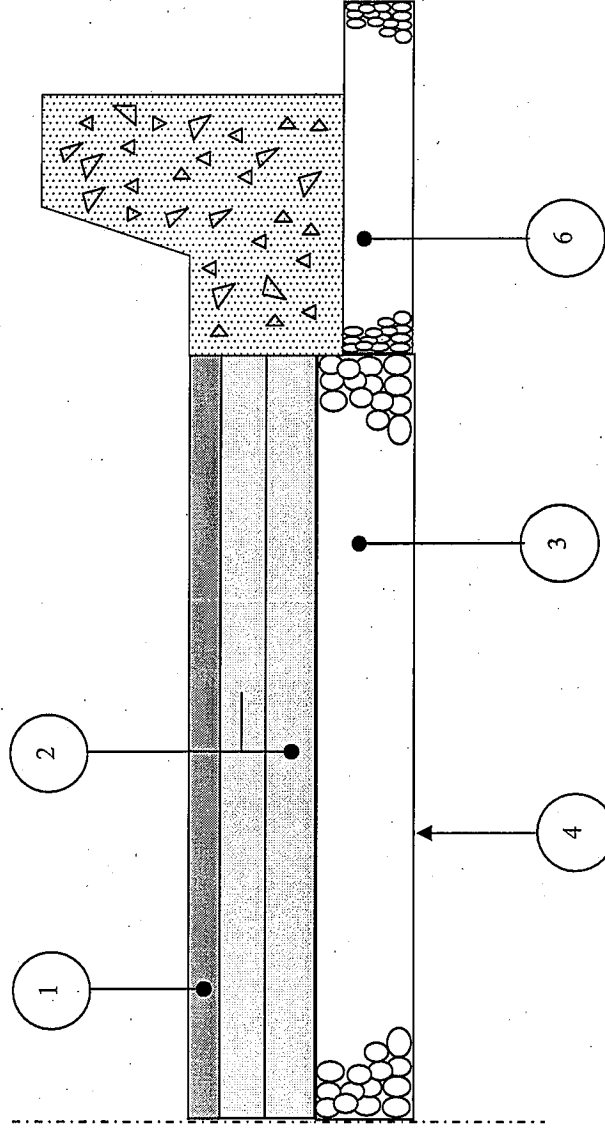
<b>Pavement Legend</b>			
1.	1.5"	Hot Mix Asphalt Superpave 9.5 mm for Surface, PG 64-22, Level 2	
2.	2.5"	Hot Mix Asphalt Superpave 19.0 mm for Base, PG 64-22, Level 2	
3.	6"	Base Course Using Graded Aggregate	
4.		Top of Subgrade and Limit of Excavation	
5.		Standard Type 'A' Combination Curb and Gutter	
6.	4"	Base Course Using Graded Aggregate	
Note:	1.	Based on information from coring operation: The existing pavement on parking lot within project limits consists of approximately 4" to 6" of HMA	
	2.	Use the following Item for Wedge/Level, as directed by the Engineer: Variable depth Hot Mix Asphalt Superpave 9.5 mm for Wedge/Level – PG 64-22, Level-2 (1" minimum, 2" maximum lift thickness)	

SCALE: NONE	DRAWN BY: MG	APPROVED BY: GMH
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<b>Pavement Section</b>			

Full Depth Reconstruction of Parking Lot



SCALE: NONE	DRAWN BY: MG	APPROVED BY: GMH
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**MARYLAND STATE HIGHWAY ADMINISTRATION**  
**OFFICE OF MATERIALS TECHNOLOGY**  
**SOIL BORING LOG**

CONTRACT NO.: AW730A21

DESCRIPTION : Annapolis Maintenance Shop Drainage Repair

DATE OF SURVEY: December, 2008

PAGE: 1 of 1

LOCATION	DEPTH	DESCRIPTION	LL	PI	MOISTURE SAMPLE			USDA CLASSIFICATION	REMARKS
					CONTENT	DEPTH	REPRESENTS		
SB-1, Sta 0+23, 95' LT, B/L Const.	0" - 4"	Top Soil	-	-	-	-	-	-	H <sub>2</sub> O @ 6' (imm) H <sub>2</sub> O @ 6' (24 hr) Cave in @ 7.5' (imm) Cave in @ 7' (24 hr)
	4" - 8'	A-2-7 w/Gravel	32	9	15%	4'	4" - 8'	Sandy Loam	
SB-2, Sta 0+50, 35' LT, B/L Const.	0" - 4"	Fractured Bituminous Concrete	-	-	-	-	-	-	
	4" - 6'	A-2-7 w/Gravel	30	9	8%	3.5'	4" - 6'	Sandy Loam	Cave in @ 7' (imm) Cave in @ 7' (24 hr)
	6' - 8'	Wood	-	-	-	-	-	-	
SB-3, Sta 0+97, 50' RT, B/L Const.	0" - 6"	Fractured Bituminous Concrete	-	-	-	-	-	-	
	6" - 5.5'	A-2 w/Gravel	26	7	9%	3.5'	6" - 5.5'	Sandy Loam	H <sub>2</sub> O @ 6' (24 hr) Cave in @ 7' (imm) Cave in @ 7' (24 hr)
	5.5' - 7'	Wood	-	-	-	-	-	-	
	7' - 14'	A-2-4 w/Gravel	25	7	14%	10.5'	7' - 14'	Sandy Loam	